

The attached Appendix includes marked-up copies of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).

In view of the amendments presented above and the remarks presented below, the Applicants respectfully request that the objections and rejections in the Office Action be reconsidered and withdrawn.

The Office Action rejects claims 1, 15, 19, 21, and 23-25 under 35 U.S.C. §103 as being obvious over United States Patent No. 4,246,578 to Kawasaki et al. in view of United States Patent No. 4,057,849 to Ying; and rejects claims 2-14, 16-18, 20, 22, and 26-33 under 35 U.S.C. §103 as being obvious over Kawasaki in view of Ying and further in view of United States Patent No. 6,201,526 to Burgan. The Applicant respectfully traverses these rejections.

At the outset, the Applicant respectfully notes that the Office Action presents contradictory statements regarding the disclosures in Kawasaki. Compare the first sentence of the last paragraph on page 3 with the first sentence regarding claim 2 on page 5 of the Office Action. Also, compare the first sentence of the fifth paragraph regarding claim 3 on page 6 with the first sentence of the next paragraph starting on page 7 of the Office Action. Accordingly, the Applicant respectfully requests that the rejections be clarified.

Regardless of the contradictions in the Office Action regarding the disclosures of the applied references, the Applicant respectfully submits that the combination of Kawasaki, Ying, and Burgan at least fails to disclose or suggest an information display apparatus including inter alia a display controller causing a display unit to automatically forming a vertical scrolling display, as recited in the context of independent claim 3, and similarly recited in the context of independent claims 1, 9, and 29-32.

Specifically Kawasaki is directed to shifting patterns on a raster scan display by a small pitch. See, generally, the Abstract. In particular, Kawasaki discloses a system that

shifts patterns on a CRT by a small pitch to enable variable pitch based on different patterns and thus enable displaying based on various character sizes in a font. See, for example, column 1, lines 4-55. Kawasaki discloses controlling the raster scanning by a position datum signal thus achieving small pitch shifting. See, for example, column 1 line 55 to column 2 line 26. Kawasaki fails to teach, disclose, or suggest anything related to automatically forming a vertical scrolling display, as recited in the context of independent claim 3.

Ying is directed to text editing and displaying system for augmenting a raster scanning system. See, generally, the Abstract. Apparently, the Office Action recognizes that Ying fails to teach, disclose, or suggest automatically forming a vertical scrolling display because the Office Action contends that Burgan remedies such a deficiency. See, for example, page 7 of the Office Action.

Burgan is directed to a visual display device that produces a procession of alphanumeric characters. See, generally, the Abstract; see also column 8 lines 37-41. Burgan, however, fails to teach, disclose, or suggest automatically forming a vertical scrolling display, as recited in the context of independent claim 3, and similarly recited in the context of independent claims 1, 9, and 29-32. Rather, Burgan discloses moving the displayed characters horizontally from one edge of the visual display to the other edge of the visual display. See, column 8 lines 42-45 as applied to Figure 7 in Burgan.

Claims 2, 4-8, 10-28, and 33 depend directly or indirectly from independent claims 1, 3, and 9 and, therefore, similarly distinguish over the combination of Kawasaki, Ying, and Burgan at least for the reason explained above with respect to independent claims 1, 3, and 9.

Accordingly, the Applicant respectfully asserts that the combination of Kawasaki and Ying and the combination of Kawasaki, Ying, and Burgan both fail to render obvious claims 1-33.

Additionally, the Applicant respectfully submits that Office Action fails to provide any motivation specifically directed to modifying the disclosure of Kawasaki by the disclosures of Ying and Burgan.

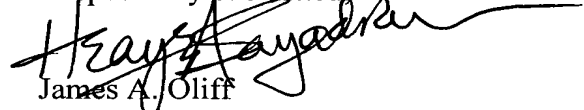
In view of the above, the Applicant respectfully requests the withdrawal of the rejection of claims 1, 15, 19, 21, and 23-25 as being obvious over Kawasaki in view of Ying, and claims 2-14, 16-18, 20, 22, and 26-33 as being obvious over Kawasaki in view of Ying and further in view of Burgan.

CONCLUSION

In view of the foregoing amendments and remarks, the Applicant respectfully submits that this application is in condition for allowance. The Applicant, therefore, earnestly solicits favorable consideration and prompt allowance of this application.

Should the Examiner believe that anything further is desirable in order to place this application in better condition for allowance, the Examiner is requested to contact the Applicant's representative at the telephone number listed below.

Respectfully submitted,

  
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Attachment:  
Appendix

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## APPENDIX

## Changes to Claims:

The following is a marked-up version of the amended claim:

1. (Twice Amended) An information display apparatus, comprising:  
a display unit that displays information;  
display control means for controlling a display operation of said display unit;  
and  
an operating unit that designates a display operation of said display unit, said display control means causing a new line of characters to be started wherever it would otherwise be required to break the word across two lines of a plurality of lines of characters of said information, and displaying the plurality of lines of characters of said information on said display unit in a font having a width that varies according to the type of character displayed, and  
said display control means controlling the display operation of said display unit so that a spacing between the characters is constant, and said display control means causing said display unit to automatically form a vertical scrolling display when an amount of information to be displayed exceeds a number of lines displayable on said display unit in one frame.

9. (Three Times Amended) An information display apparatus comprising:  
a display unit that displays information;  
display control means for controlling a display operation of said display unit;  
and  
an operating unit that designates a display operation of said display unit, said display control means causing said display unit to form a fixed display when an amount of information to be displayed on said display unit is not greater than an amount displayable in

one frame, and said display control means causing said display unit to automatically form a vertical scrolling display a plurality of times continuously when an amount of information to be displayed exceeds an amount displayable on said display unit in one frame, the operation of automatically forming a scrolling display being provided by virtue of automatic operation of the display control means and operating unit without manual operation of a user.

29. (Amended) An information display apparatus, comprising:

a display unit that displays information;

a display control device that controls a display operation of said display unit;

and

an operating unit that designates a display operation of said display unit, said display control device causing a new line of characters to be started wherever it would otherwise be required to break the word across two lines of a plurality of lines of characters of said information, and displaying the plurality of lines of characters of said information on said display unit in a font having a width that varies according to the type of character displayed, and

said display control device controlling the display operation of said display unit so that a spacing between the characters is constant, and said display control means causing said display unit to automatically form a vertical scrolling display when an amount of information to be displayed exceeds a number of lines displayable on said display unit in one frame.

31. (Amended) An information display method, comprising:

performing a display operation by displaying information;

controlling the display operation by starting a new line of characters wherever it would otherwise be required to break the word across two lines of a plurality of lines of characters of said information, displaying the plurality of lines of characters of said information in a font having a width that varies according to the type of character displayed, ~~and controlling the display operation so that a spacing between the characters is constant, and~~ controlling the display operation by automatically forming a vertical scrolling display when an amount of information to be displayed exceeds a number of lines displayable on a display unit in one frame; and

designating the display operation.